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THE GLAMMOUR OF TECHNOLOGY

# SIM2 Grand Cinema™ C3X LUMIS HOST



# SIM2 Grand Cinema™ C3X LUMIS HOST

## Key points

- 3-chip Full HD (1080p) DLP®- based home theater projector
- 3 x DarkChip4™ DMD (1920 x 1080 pixel resolution)
- Patented ALPHAPATH™ light engine with precision glass optics
- Contrast ratio up to 35:000:1
- SIM2's user adjustable iris system
- DynamicBlack™ technology
- 280W Dimmable lamp
- Brightness output adjustable from 1200 to 3000 Ansi Lumens
- High definition Optical Signal Transfer (H.O.S.T. by SIM2) run to distances up to 250m (750ft)
- Comprehensive choice of inputs, including 6 x HDMI (1.3 with DeepColor), HD-SDI input
- LAN professional control
- 10-bit video processing (1080p@24 Hz compatible)
- Live Colors Calibration software
- Choice of three lenses



# SIM2 Grand Cinema™ C3X LUMIS HOST

## Redifining Excellence

# Maximum Flexibility

## The H.O.S.T. concept

The Grand Cinema™ C3X LUMIS HOST, the latest addition to SIM2's award-winning Grand Cinema™ C3X series, takes a modular theme for its design, by dividing the projector into its two major constituent parts: the projector itself and the processing electronics. This modular design approach not only allows for one simple connection between the units, but also eliminates the detrimental signal losses suffered when using long cable runs from the source components in a home theatre system.

The Grand Cinema™ C3X LUMIS HOST projector achieves extraordinary picture quality through the partnership of the latest 0,95" 1080p DC4 DLP® chipset from Texas Instruments, the precision optics of SIM2's ALPHAPATH™ light engine, and DynamicBlack™ technology. No other projector technology can match the superb color depth, excellent contrast ratio (up to 35.000:1) and exceptional brightness (3000 Ansi Lumens) that the Grand Cinema™ C3X LUMIS HOST is able to deliver.

For ease of installation, a choice of three lens options is available for Grand Cinema™ C3X LUMIS HOST, which allows for even greater flexibility in the positioning of the projector. Add to this, the wide choice of control options on offer: IR, RS232 and IP addressable, and C3X LUMIS HOST becomes a very potent proposition for installers and customers alike.

The Grand Cinema™ C3X LUMIS HOST is performance and elegance exemplified - a true Italian masterpiece. Available in high-gloss Silver Black finish.



The SIM2 HOST (High-definition Optical Signal Transfer) module houses the projector's control electronics in a discrete unit designed for maximum flexibility of placement, thanks to SIM2's HOST three-line digital high-integrity fiber-optic connection. This simple single connection can be run to distances of up to 250m (800ft), and is impervious to electrical interference - even when placed in conduit containing high voltage electrical cables - maintaining total signal integrity between source and projector. The SIM2 HOST module's on-board LCD panel displays all vital system information (brightness, contrast, gamma, signal

type, etc.) at the touch of a button. The Grand Cinema™ C3X LUMIS HOST utilizes true 10-bit video processing (with high-definition scaling and de-interlacing capabilities) to create clean, artefact-free video images from today's HD sources. 10-bits-per-channel processing produces 1024 shades of gray (or shades of a single color): the result is the ability to render over 1 billion colors on-screen, whilst also making the projector compatible with Full HD 1080p content (including 1080p 24Hz). The HOST module incorporates superbly flexible video switching with no less than six HDCP-compliant HDMI inputs, three

HD-capable component-video inputs, and an array of legacy composite- and S-video inputs, as well as RGB, DVI and SDI professional input. A dedicated 10/100 Mbit Ethernet connector (LAN) is fitted as standard, allowing the product to be connected to a LAN network or to the internet. This network connection can be used to remotely-control the projector using TCP/IP commands or to feedback projector operating status information such as serial number, working hours and firmware version to a designated e-mail address.

# Performances elevated to new heights

## DynamicBlack™ and Variable Iris

Grand Cinema™ C3X LUMIS HOST combines the very latest developments from Texas Instruments' DLP® technology with the world-renowned technical expertise of SIM2's R&D design team to achieve increased contrast and black level performance from this new projector.

This improved black level performance enables the C3X LUMIS HOST to produce images that contain the maximum amount of detail possible in dark scenes without compromising black level or the excellent dynamic range available from DLP technology.

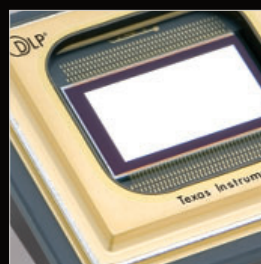
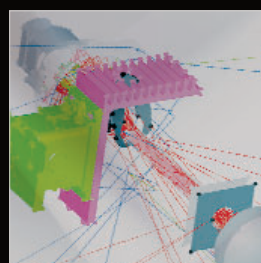
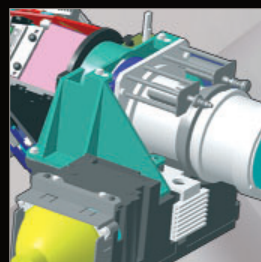
SIM2 has developed a unique solution to achieve this, using three distinct specialized components: a user adjustable iris, DynamicBlack™ technology and a new dimmable lamp.

SIM2's custom-designed dynamic iris utilises a non-symmetric, folded aperture, powered by

an ultra-fast motor and is placed at the front-end of the light path. This ensures that unwanted reflections are kept out of the light path. DynamicBlack™ technology provides the dynamic iris with micro-second precision adjustment to the source material, on a frame-by-frame basis.

This combination of user adjustable iris, DynamicBlack™, and the latest in dimmable lamp technology means that the Grand Cinema™ C3X LUMIS HOST can be easily configured to meet the exacting requirements of a wide range of home theatre and professional applications, optimising light intensity and black level to each scenario.

Whether the requirement is for high brightness (3000 Ansi Lumens) or optimum black level in darkened conditions, C3X LUMIS HOST offers unrivalled customization and flexibility.



# SIM2 Grand Cinema™ C3X LUMIS HOST

## Technical Features

### LIGHT ENGINE

DLP® Type: 3 Chip DMDs 0,95" 1080p DC4  
Resolution: 1920x1080 pixels  
Lens: High quality, high resolution improved optics for higher contrast and better black level with motorized zoom and focus adj.  
Lamp power consumption: 280W dimmable to 230W  
Lamp life expectancy<sup>(1)</sup>: 2000 hours typical in standard power mode  
3000 hours in ECO mode  
Brightness: up to 3000 Ansi Lumens (adjustable)  
Contrast ratio (Full ON / OFF): up to 35000:1 with Dynamic Black™

### INSTALLATION

Throw ratio standard lens: 1.75-2.48:1 (type T2)  
Throw ratio optional lenses: 1.37-1.66:1 (typ. T1); 2.6-3.9:1 (typ. T3)  
Lens shift (half up picture +50%) and Digital keystone adjustment  
Picture size (inches diagonal): 50-300  
Aspect ratio: 4:3, 16:9 Anamorphic, LetterBox, Panoramic, Pixel to Pixel + 3 custom-user adjustments

### ELECTRONICS

Horizontal & vertical scan freq.: 15-80kHz/24-100Hz  
SDTV: PAL (B,G,H,I,M,N,60); SECAM; NTSC autom. selected  
HDTV: 480p, 720p 50/60, 1080i 50/60, 1080p 24/50/60 + 576p  
PC graphic standard: VGA, SVGA, XGA, SXGA, UXGA, WUXGA  
10 bit Full Channel Signal Board Video Processing

### GENERAL SPECIFICATIONS

Software control: upgradable via RS232, serial interface or USB  
Mains voltage range: 100-240 +/-10% (48/62 Hz)  
Projector Weight/Dimensions (WxHxD): 11 Kg. or 24.3 lbs;  
470x270x470 mm (18.5"x10.6"x18.5")  
HOST Weight/Dimensions (WxHxD): 2.5 Kg. or 5.5 lbs; 347x90x300 mm (13.7"x3.6"x11.8")

### INPUTS/OUTPUTS on HOST

Digital: 1 x HD-SDI (BNC)  
1 x DVI (DVI-D)  
6 x HDMI-HDCP (HDMI) (vers. 1.3 with DeepColor)  
Analog: 2 x Composite Video (RCA)  
2 x S-Video (Mini DIN 4pin)  
2 x Graphic RGBVH (VGA-UXGA) (D-sub 15 pin)  
3 x Component - Analog YPbPr/RGBs/RGBHV (RCA)  
1 x RGBHV progressive analog (BNC)  
Control: 1 x RS232 (D-sub 9 pin)  
1 x USB  
1 x Ethernet (RJ45)  
Miscellaneous: 3 x fiber optics link (LC)  
2 x OUT 12V 100mA (via Jack)

### SUPPLIED ACCESSORIES

Installation and User Manual; AC power cords (2m - 6.6 ft); Backlit remote control and batteries; Live Colors Calibration software

### OPTIONAL ACCESSORIES

IR Repeater; SIM2 Auto Calibration Kit<sup>(2)</sup>; Projector ceiling bracket; Anamorphic lens systems (fixed or motorized) + ceiling bracket<sup>(3)</sup>.

H.O.S.T.  
by SIM2



HDMI™  
HIGH DEFINITION MULTIMEDIA INTERFACE

<sup>(1)</sup> Lamp life: the hours quoted have been measured in a lab under ideal test conditions. Lamp life varies depending on usage conditions and the surrounding environment. This is an average value that cannot be guaranteed and is not protected by warranty.

<sup>(2)</sup> SIM2 Auto Calibration Kit automatically calibrates the unit according to the environment in which it's installed - Available from end 1<sup>st</sup> quarter 2009

<sup>(3)</sup> Available from 1<sup>st</sup> quarter 2009

Due to constant product development, specifications and design might be subject to change without notice. C3X LUMIS HOST - WORLD - November 2008